

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) A computational unit in an adaptable computing engine, wherein the computational unit includes a clock signal for determining a processor cycle, the computational unit comprising  
one or more functional units coupled by a bus, wherein the one or more functional units include functional unit inputs;  
at least one register coupled between the bus and at the input of least one functional unit input; and  
a control signal for selectively causing the at least one register to hold a data value from the bus for one or more processor cycles at the input of the at least one functional unit, the data value being obtainable at the input at a start of a next processor cycle upon being needed.
2. (previously presented) The computational unit of claim 1, wherein the register includes circuitry for selectively providing a constant value.
3. (previously presented) The computational unit of claim 1, further comprising  
a coupling of a pair of registers such that the pair of registers is responsive to a control signal value.
4. (previously presented) The computational unit of claim 3, further comprising  
control circuitry for setting the pair of registers into predetermined states based on the control signal value.
5. (previously presented) The computational unit of claim 4, wherein the pair of registers includes first and second registers, wherein the predetermined states include one or more of the following for the first and second registers, respectively: load, hold; load, clear; hold, load; clear, load; hold, hold; hold, clear; clear, hold; and clear, clear.

6. (previously presented) The computational unit of claim 4, wherein the control signal value comprises 7 bits.

7. (currently amended) A method for providing data in a computational unit in an adaptable computing engine, the method comprising  
including registers at inputs to functional units, wherein the registers are coupled to a bus for obtaining data from the bus; and  
including a control signal for selectively causing the registers to hold a data value from the bus for one or more processor cycles at an input of at least one functional unit in the one or more functional units, the data value being obtainable at the input at a start of a next processor cycle upon being needed.

8. (previously presented) The method of claim 7, wherein the register includes circuitry for selectively providing a constant value.

9. (previously presented) The method of claim 7, further comprising coupling a pair of registers such that the pair of registers is responsive to a control signal value.

10. (previously presented) The method of claim 9, further comprising providing control circuitry for setting the pair of registers into predetermined states based on the control signal value.

11. (previously presented) The computational unit of claim 9, wherein the pair of registers includes first and second registers and wherein the predetermined states include one or more of the following for the first and second registers, respectively: load, hold; load, clear; hold, load; clear, load; hold, hold; hold, clear; clear, hold; and clear, clear.

12. (previously presented) The computational unit of claim 9, wherein the control signal value comprises 7 bits.

13. (currently amended) An apparatus for providing a data value in a computational unit in an adaptable computing engine, wherein the computational unit includes a multi-stage execution pipeline, the apparatus comprising

- one or more functional units coupled by a bus, wherein the one or more functional units include functional unit inputs;
- at least one input register coupled between the bus and at least one functional unit input, the at least one register configured to store a value received from the bus at a beginning or end of a first clock cycle; and
- a data path from ~~[[an]]~~ the at least one input register to a given stage in the execution pipeline so that ~~[[a]]~~ the value provided by the register is available for use at a time of execution of the given stage of the at least one functional unit, wherein the value is available to the given state at a next clock cycle from the first clock cycle.

14. (previously presented) The apparatus of claim 13, wherein the register includes circuitry for selectively providing a constant value.

15. (currently amended) A method for providing a data value in a computational unit in an adaptable computing engine, wherein the computational unit includes a multi-stage pipeline, the method comprising

- coupling one or more functional units to a bus, wherein the one or more functional units include functional unit inputs;
- coupling at least one register between the bus and at least one functional unit input;
- storing a value received from the bus in the at least one register at a beginning or end of a first clock cycle; and
- providing a data path from ~~[[a]]~~ the at least one register to a given stage in the execution pipeline so that ~~[[a]]~~ the value provided by the at least one register is available for use at a time of execution of the given stage of the at least one functional unit, wherein the value is available to the given state at a next clock cycle from the first clock cycle.

16. (previously presented) The apparatus of claim 13, wherein the register includes circuitry for selectively providing a constant value.

17. (new) The method of claim 1, wherein the data value is obtained from the at least one register without performing an access command to memory.

18. (new) The method of claim 7, wherein the data value is obtained from the at least one register without performing an access command to memory.

19. (new) The apparatus of claim 13, wherein the data value is obtained from the at least one register without performing an access command to memory.

20. (new) The method of claim 15, wherein the data value is obtained from the at least one register without performing an access command to memory.